

Figure 1

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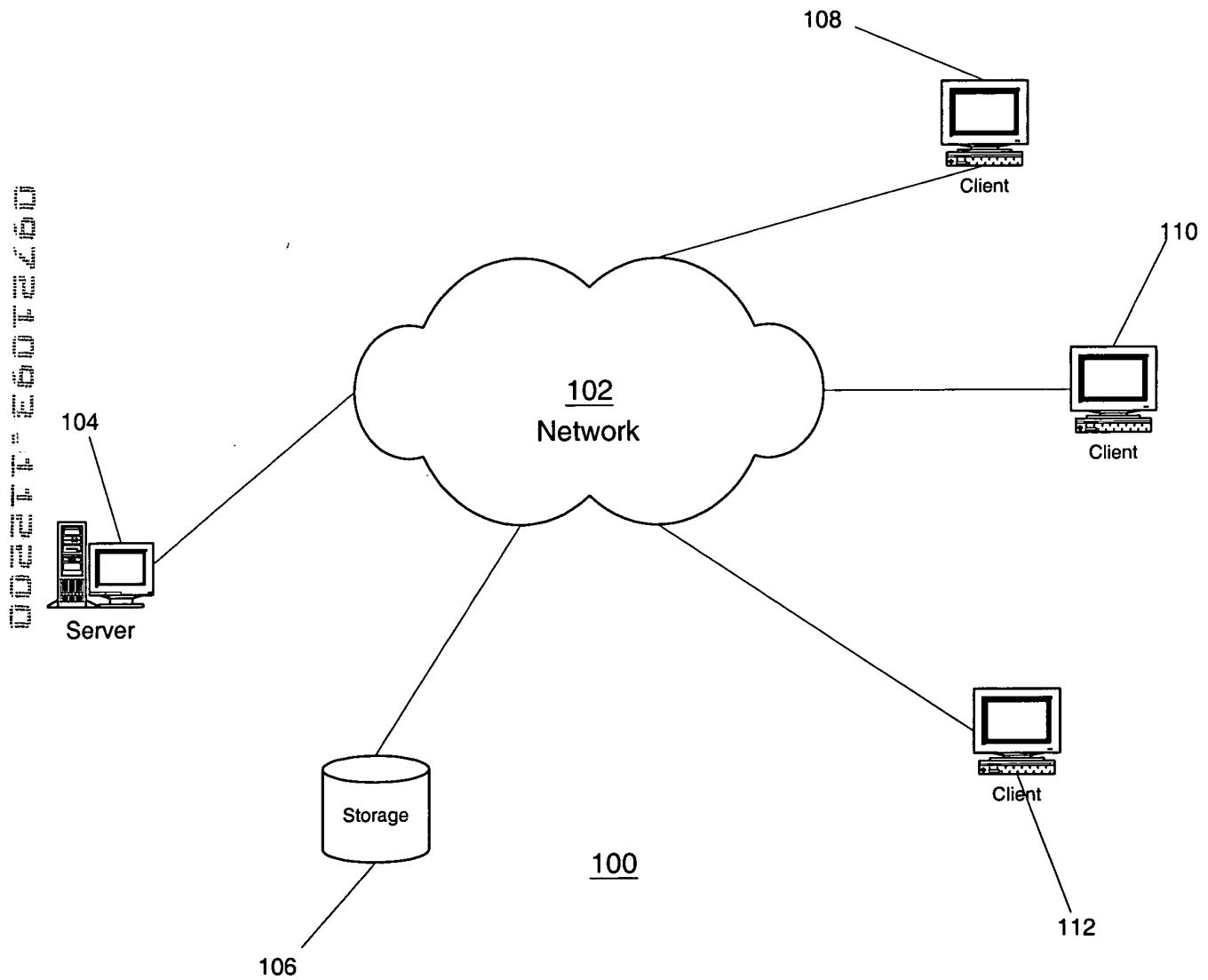


Figure 3

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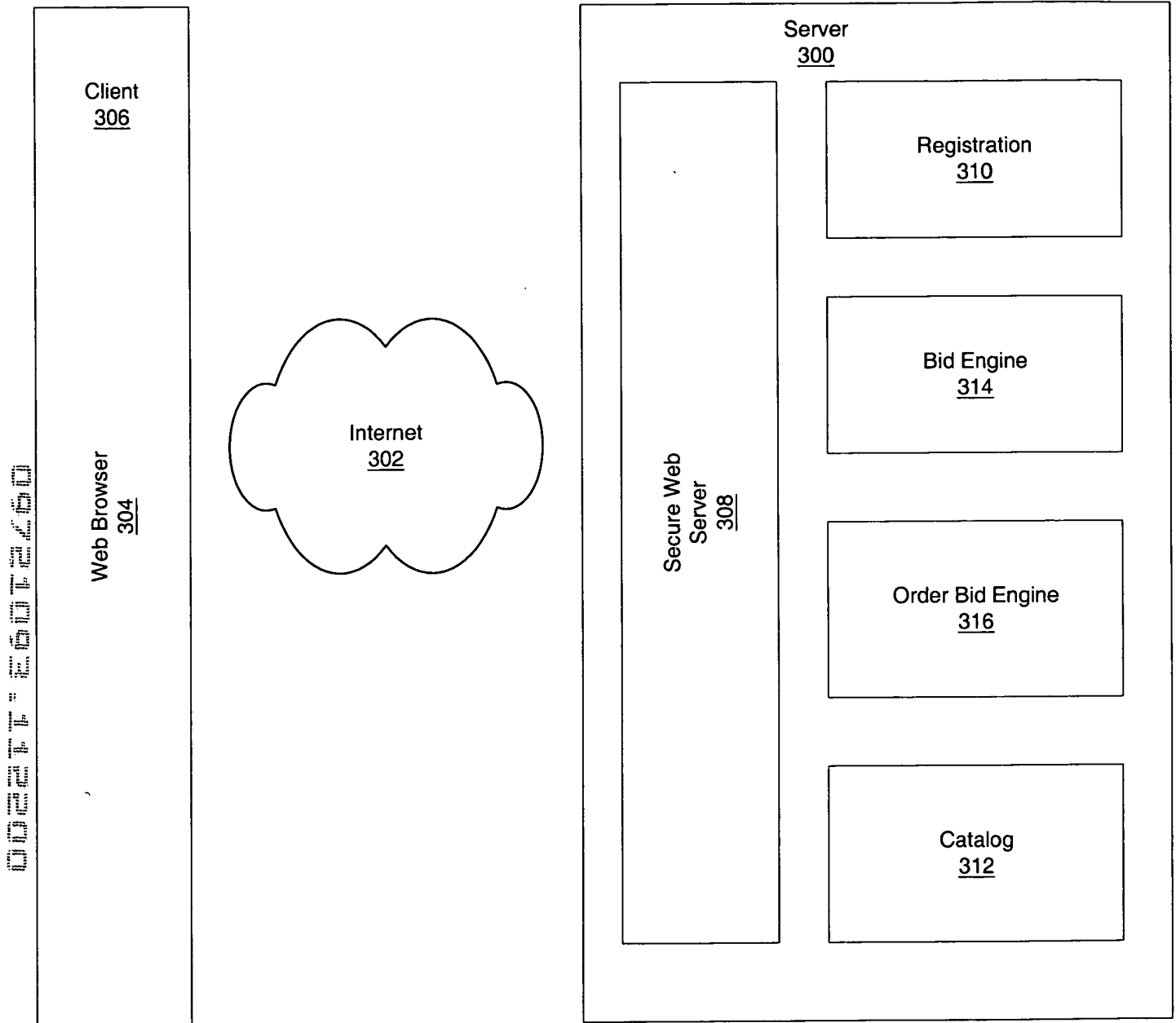
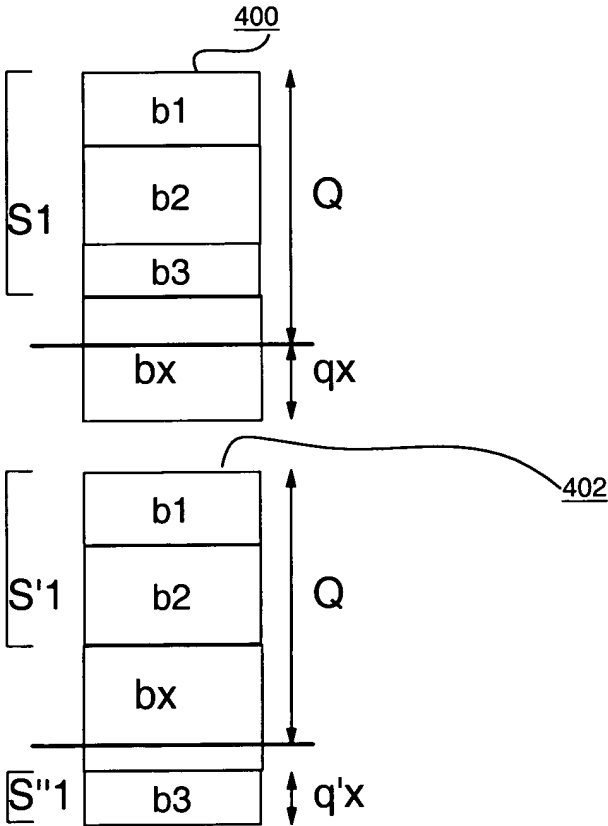


Figure 4

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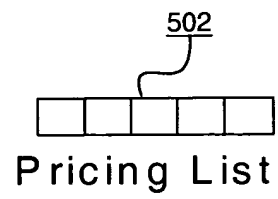
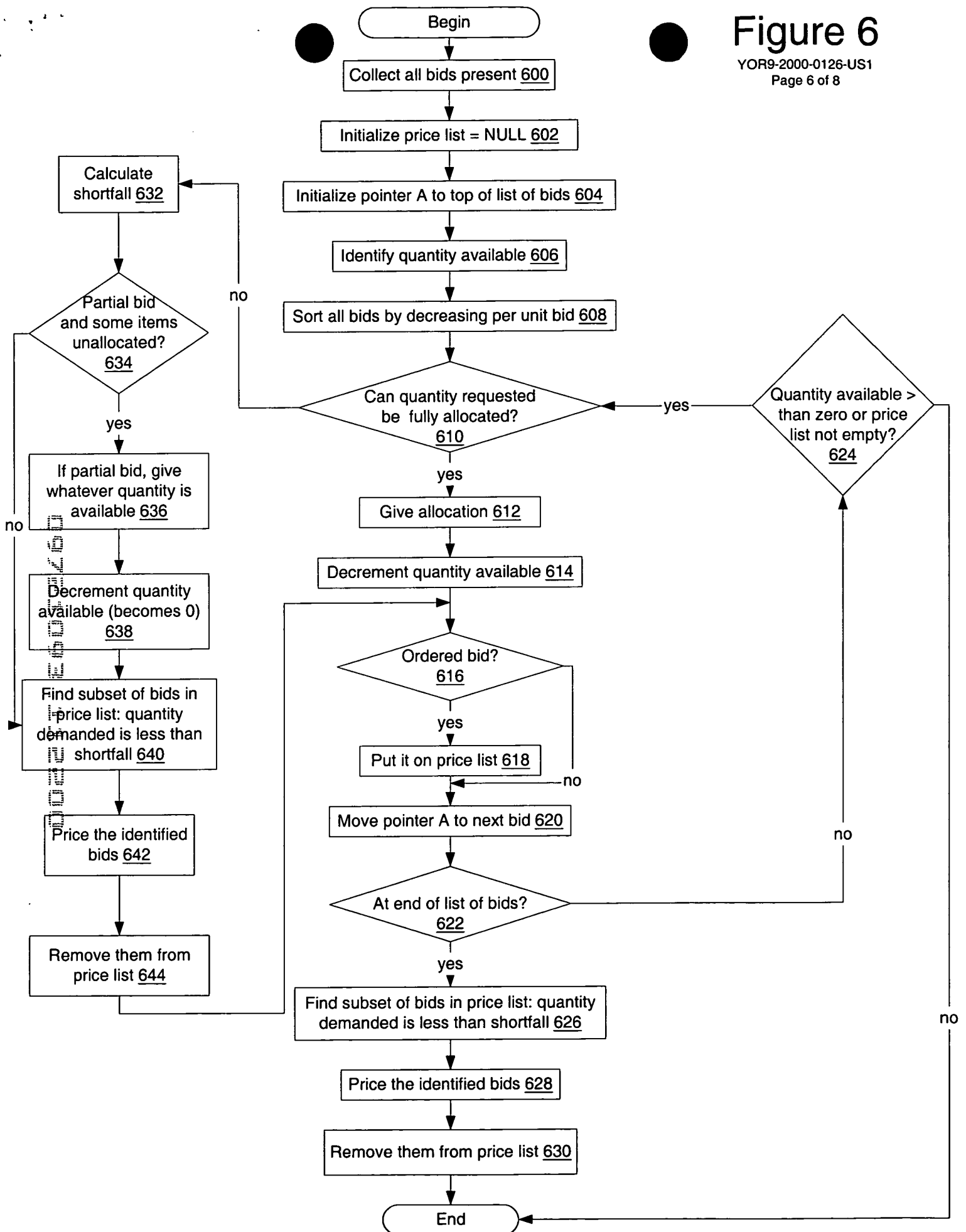
[illegible]

Figure 6

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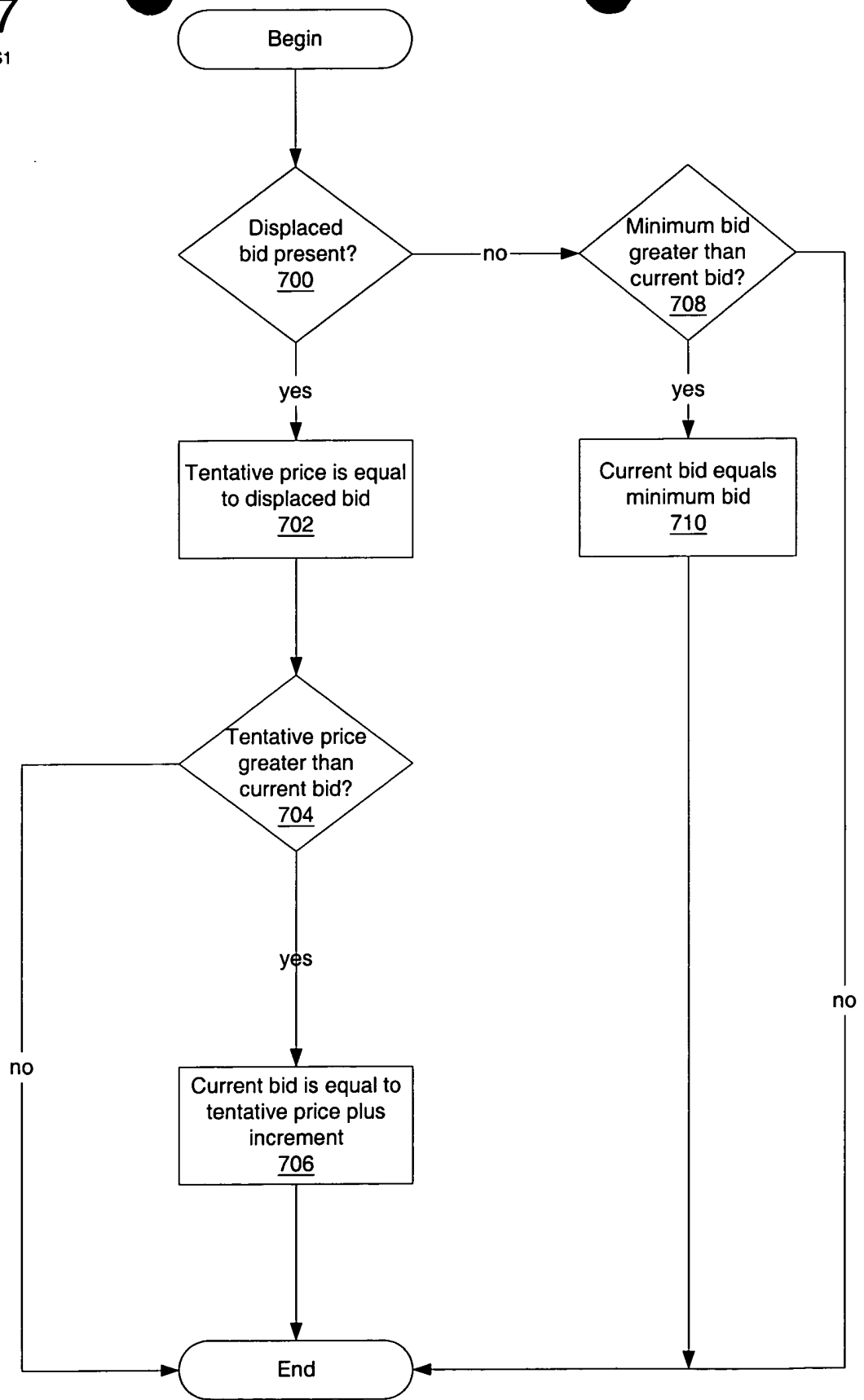


Figure 8

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800

```
q_avail =  
q_on_stack = 0 ;  
  
while ( ( (q_avail > 0) || (q_on_stack > 0) ) && ( ~ EOL ) ) {  
    If ( current->q_need <= q_available ) { // Full allocation  
        If (This is an order bid) Stack_it  
    }  
    Else {  
        If (current_bid is an partial bid) { short_fall = 1 }  
        Else { Shortfall = current->q_need - q_available } ;  
        While ( Shortfall <= q_on_stack ) {  
            price bids on stack ; /* Current bid is displacing them */  
        }  
  
        If (current bid is an order_bid) {  
            Put bid on stack ;  
            Increment q_on_stack ;  
        }  
    }  
  
While ( ( (q_avail > 0) || (q_on_stack > 0) ) && EOL ) {  
    price bids on stack ; /* No bids are displacing them */  
}
```